

(12) is located inside the roof lining.

USE - Motor vehicles.

ADVANTAGE - Can be pre-assembled, easy and low-cost fabrication, permits generation of different climatic zones within vehicle.

DESCRIPTION OF DRAWING(S) - Figure shows section through part of roof module.

outer roof skin (2)

inner lining (2')

hollow bodies (3,4)

foam padding (5)

stiffeners (10,11)

air mixer (12)

air intakes/outlets (18)

vehicle interior (19)

pp; 5 DwgNo 1/2

Title Terms: ROOF; MODULE; MOTOR; VEHICLE; CONSIST; OUTER; THIN; WALL; ROOF; SKIN; INTERNAL; LINING; TWO; INTERNAL; HOLLOW; BODY; STIFFEN; PURPOSE; SUPPLY; AIR; VEHICLE; INTERIOR

Derwent Class: Q12; Q17

International Patent Class (Main): B60R-013/02

International Patent Class (Additional): B60H-001/24

File Segment: EngPI

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?ss pn=de 10022902

S2 1 [PN=DE 10022902]

?t s2/9/all

2/9/1

DIALOG(R)File 351:Derwent WPI

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013707389 **Image available**

WPI Acc No: 2001-191613/200119

XRPX Acc No: N01-136150

Covering or molded element with high absorbing effect for use in vehicle components, has at least one microperforated film absorber and either at least one absorber of foam or fleece or space

Patent Assignee: CLION IRLAND LTD (CLIO-N); HP-CHEM PELZER RES & DEV LTD (HPCH-N)

Inventor: CHUONG D; NICOLAI N; FUCHS H V

Number of Countries: 095 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200112470	A1	20010222	WO 2000EP7459	A	20000802	200119 B
DE 10022902	A1	20010308	DE 1022902	A	20000511	200121
AU 200066988	A	20010313	AU 200066988	A	20000802	200134
EP 1202874	A1	20020508	EP 2000954582	A	20000802	200238
			WO 2000EP7459	A	20000802	

Priority Applications (No Type Date): DE 1022902 A 20000511; DE 1038005 A 19990811

Patent Details:

Patent No	Kind	Lat Pg	Main IPC	Filing Notes
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WO 200112470	A1	G	26	B60R-013/08
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Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

DE 10022902	A1		B60R-013/08
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AU 200066988	A		B60R-013/08
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Based on patent WO 200112470

EP 1202874	A1	G	B60R-013/08
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Based on patent WO 200112470

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

Abstract (Basic): WO 200112470 A1

NOVELTY - Element has at least one microperforated film absorber

and either at least one absorber that consists of foamed or non-woven material or clearance at space from reverberant wall. Preferably the perforation component of film absorber is 0.3%-2% and the holes have one or more diameters of 0.1-0.8 mm and one or more hole spacings of 1-3 mm. Several film absorbers with different hole diameters and spacings may be used.

USE - For all parts of vehicle (Claimed).

ADVANTAGE - High absorption over relatively broad frequency band.

DESCRIPTION OF DRAWING(S) - The figure shows a transmission tunnel with different hole sizes in the microperforated film absorber (Drawing contains non-English language text).

Metal (Metall)

Microperforation hole size 1 (Mikroperforation Lochgroesse 1)

Microperforation hole size 2 (Mikroperforation Lochgroesse 2)

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Title Terms: COVER; MOULD; ELEMENT; HIGH; ABSORB; EFFECT; VEHICLE; COMPONENT; ONE; FILM; ABSORB; ONE; ABSORB; FOAM; FLEECE; SPACE

Derwent Class: P86; Q17

International Patent Class (Main): B60R-013/08

International Patent Class (Additional): B60R-013/02; G10K-011/16

File Segment: EngPI

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?ss pn=de 19847795

S3 1 PN=DE 19847795

?t s3/9/all

3/9/1

DIALOG(R)File 351:Derwent WPI

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013147404 **Image available**

WPI Acc No: 2000-319276/ 200028

XRAM Acc No: C00-096966

XRPX Acc No: N00-239543

Production of roof-reinforcing, internal cladding for vehicles, passes soft foam through resin to adhere it to coverings and linings when hot-pressed to form lighter, stronger rigid molding with high dimensional stability

Patent Assignee: JOHNSON CONTROLS HEADLINER GMBH (JOHN-N)

Inventor: BODWING F; HAERTLING P; KOENIGER U; LOUIS D

Number of Countries: 025 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 19847795	C1	20000504	DE 1047795	A	19981016	200028 B
EP 997265	A1	20000503	EP 99120456	A	19991014	200028

Priority Applications (No Type Date): DE 1047795 A 19981016

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

DE 19847795 C1 6 B62D-025/06

EP 997265 A1 G B32B-005/18

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI

Abstract (Basic): DE 19847795 C1

NOVELTY - A foamed panel or band of material (14) is wetted or saturated with a resin material (28) adherent to two covering layers (16, 18), between which it is then sandwiched. Hot pressing in a mold (40), produces the required hardened roof contour.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for the corresponding reinforced roof internal cladding.

Preferred features: The foam is passed through a bath of the resin, then through a calender with adjustable nip (30), pressing out surplus. Covering layers are added. The composite passes through a second calender (34), before reaching the hot pressing mold, where hardening and bonding are completed. Between first and second calenders, the foam is wetted with catalyst, which mixes with the resin in passing through the second nip, becoming distributed over the entire width. This accelerates hardening during hot pressing. The foam is 5-10 mm thick